

# Nishanth Dongari

## List of Publications by Year in descending order

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25  
papers

667  
citations

759233

12  
h-index

642732

23  
g-index

26  
all docs

26  
docs citations

26  
times ranked

490  
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of Knudsen layer on rarefied hypersonic gas flows. AIP Conference Proceedings, 2019, , .	0.4	1
2	Numerical modeling of Knudsen layer effects in high-speed microscale gas flows. AIP Conference Proceedings, 2019, , .	0.4	0
3	Implementation of Knudsen Layer Phenomena in Rarefied High-Speed Gas Flows. Journal of Aerospace Engineering, 2019, 32, .	1.4	5
4	Modeling of a reaction control jet interacting with high-speed cross-flow in slip flow regime. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 5029-5044.	1.3	1
5	Effect of Knudsen Layer on the heat transfer in hypersonic rarefied gas flows. International Journal of Thermal Sciences, 2019, 142, 134-141.	4.9	8
6	Modeling of Knudsen Layer Effects in the Micro-Scale Backward-Facing Step in the Slip Flow Regime. Micromachines, 2019, 10, 118.	2.9	9
7	Numerical investigation of a chemically reacting and rarefied hypersonic flow field. Shock Waves, 2019, 29, 857-871.	1.9	3
8	Comprehensive Evaluation of a New Type of Smoluchowski Temperature Jump Condition. AIAA Journal, 2018, 56, 4621-4625.	2.6	3
9	Breakdown parameter for kinetic modeling of multiscale gas flows. Physical Review E, 2014, 89, 063305.	2.1	22
10	Analytical solution of plane Poiseuille flow within Burnett hydrodynamics. Microfluidics and Nanofluidics, 2014, 16, 403-412.	2.2	24
11	The effect of Knudsen layers on rarefied cylindrical Couette gas flows. Microfluidics and Nanofluidics, 2013, 14, 31-43.	2.2	25
12	Dynamics of Nanoscale Droplets on Moving Surfaces. Langmuir, 2013, 29, 6936-6943.	3.5	46
13	Effects of curvature on rarefied gas flows between rotating concentric cylinders. Physics of Fluids, 2013, 25, .	4.0	24
14	Molecular dynamics simulations of high speed rarefied gas flows. AIP Conference Proceedings, 2012, , .	0.4	3
15	Rarefaction effects in gas flows over curved surfaces. AIP Conference Proceedings, 2012, , .	0.4	2
16	Modeling of Navier-Stokes equations for high Knudsen number gas flows. International Journal of Heat and Mass Transfer, 2012, 55, 4352-4358.	4.8	38
17	Molecular free path distribution in rarefied gases. Journal Physics D: Applied Physics, 2011, 44, 125502.	2.8	51
18	Liquid slip/stick over hydrophobic/hydrophilic surfaces and their implications in coating processes. Chemical Engineering and Processing: Process Intensification, 2011, 50, 450-453.	3.6	3

#	ARTICLE	IF	CITATIONS
19	Isothermal micro-channel gas flow using a hydrodynamic model with dissipative mass flux. , 2011, , .		3
20	Modeling of Knudsen Layer Effects in Micro/Nanoscale Gas Flows. Journal of Fluids Engineering, Transactions of the ASME, 2011, 133, .	1.5	69
21	Behaviour of microscale gas flows based on a power-law free path distribution function. , 2011, , .		3
22	Predicting microscale gas flows and rarefaction effects through extended Navier-Stokes-Fourier equations from phoretic transport considerations. Microfluidics and Nanofluidics, 2010, 9, 831-846.	2.2	48
23	Pressure-driven diffusive gas flows in micro-channels: from the Knudsen to the continuum regimes. Microfluidics and Nanofluidics, 2009, 6, 679-692.	2.2	104
24	Extended Navier-Stokes Equations and Treatments of Micro-Channel Gas Flows. Journal of Fluid Science and Technology, 2009, 4, 454-467.	0.6	23
25	Analytical solution of gaseous slip flow in long microchannels. International Journal of Heat and Mass Transfer, 2007, 50, 3411-3421.	4.8	147